QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Kerb	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
8	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	

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9	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
10	PCC M15	Compressive Strength(7days and 28days)	5 set /51-100 Cum	52.25	10	10
11	Culvert Concrete M20	Compressive Strength(7days and 28days)	2 set /6-15 Cum	6.73	4	4
12	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	6 set /100-150 Cum	145.66	12	12

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-29-76** **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-29-76** **Date: 10-12-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2020-01-29-76 **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-29-76** **Date: 15-11-19**

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.68**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.22**	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-29-76** **Date: 13-11-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-29-76 Date: 13-11-19

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-01-29-76** **Date: 13-11-19**

Project Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/145/2019-20

Date of Receipt : 11-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.No	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : **The tested Sample Conforms to Grading Zone II**

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TEST REPORT OF FINE AGGREGATE

ab ID : CP-2020-01-29-76 Date: 13-11-19

YSICAL PROPERTIES

Sl no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

	:	**CP-2020-01-29-76** **Date: 18-11-19**
t Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
of Receipt	:	16-11-19
le Type	:	Sunvik
rence to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
of test	:	16-11-19

Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2020-01-29-76 **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Date of Receipt	:	11-11-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	12-11-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	203	198	16198	32.175	1986.3	2019.4	Not less than 1800Kg/m^3
2	404	201	199	16160	32.073	1984.7		
3	404	198	198	15838	33.059	2087.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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: CP-2020-01-29-76 Date: 15-11-19

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	200	200	
3	399	202	202	
4	400	199	200	
5	404	200	203	
6	402	202	201	
7	402	203	202	
8	402	201	202	
9	400	202	199	
10	404	200	200	
11	402	200	202	
12	399	201	199	
13	399	201	199	
14	402	201	202	
15	401	199	202	
16	401	202	199	
17	402	203	202	
18	404	203	203	
19	403	199	201	
20	401	203	201	
Average	**402**	**201**	**201**	

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: CP-2020-01-29-76 Date: 15-11-19

E STRENGTH:

Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
Length	Breadth				
mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
400	200	79892	372.6	4.7	4.6
403	200	80674	388.3	4.8	
399	202	80542	371.9	4.6	
400	199	79786	369.6	4.6	
404	200	80572	364.4	4.5	
402	202	81096	374.1	4.6	
402	203	81566	384.7	4.7	
402	201	81001	367.3	4.5	

Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
	5.00 N/mm^2	4.00 N/mm^2
	4.00 N/mm^2	3.20 N/mm^2

pertain to the samples received and tested.
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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

: **CP-2020-01-29-76** **Date: 27-11-19**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 23-11-19

: Precast Cover Slab 100mm

: IS: 516 - 1959 Methods of Tests for Strength of Concrete

: 23/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

: CP-2020-01-29-76 **Date: 27-11-19**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 23-11-19

: Precast Cover Slab 250mm

: IS: 516 - 1959 Methods of Tests for Strength of Concrete

: 23/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
Cover Slab-2	200.49	250.52	3.122	31564	240.3	7.6	7.1	8.9
Cover Slab-3	200.50	250.51	3.118	31567	240.5	7.6	7.1	8.9

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

: **CP-2020-01-29-76** **Date: 02-12-19**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 28-11-19

: CC Kerb Stone/ 450*165*400mm

: IS: 516 - 1959 Methods of Tests for Strength of Concrete

: 28/11/2019

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 27/11/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	149.27 X 151.59 X 149.51	22627	**8.445**	280.3	12.4	12.4
PCC	M15	20/11/2019	27/11/2019	149.36 X 149.28 X 149.44	22295	**8.892**	271.6	12.2	
PCC	M15	20/11/2019	27/11/2019	149.28 X 151.13 X 149.46	22561	**8.031**	287.4	12.7	

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Authorized Signatory
Quality Manager

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AEE (VRP) SD

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 18/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
PCC	M15	20/11/2019	18/12/2019	151.35 X 151.38 X 151.88	22912	8.629	389.5	17.0	17.3
PCC	M15	20/11/2019	18/12/2019	151.55 X 151.03 X 149.63	22887	8.669	393.1	17.2	
PCC	M15	20/11/2019	18/12/2019	149.30 X 149.50 X 149.53	22321	8.460	398.3	17.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-29-76 **Date: 27/11/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	149.13 X 150.22 X 149.95	22403	**8.445**	286.3	12.8	12.7
PCC	M15	20/11/2019	27/11/2019	149.87 X 149.91 X 150.02	22468	**8.892**	285.4	12.7	
PCC	M15	20/11/2019	27/11/2019	151.95 X 150.77 X 149.65	22909	**8.031**	289.4	12.6	

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Quality Manager

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 18/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	18/12/2019	151.40 X 150.62 X 149.79	22804	8.629	402.4	17.6	17.4
PCC	M15	20/11/2019	18/12/2019	150.81 X 149.01 X 149.54	22472	8.669	383.4	17.1	
PCC	M15	20/11/2019	18/12/2019	151.94 X 150.41 X 151.63	22853	8.460	400.2	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 27/11/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	151.50 X 150.28 X 149.75	22767	**8.445**	274.8	12.1	12.5
PCC	M15	20/11/2019	27/11/2019	150.83 X 151.08 X 149.59	22788	**8.892**	288.9	12.7	
PCC	M15	20/11/2019	27/11/2019	149.33 X 151.36 X 149.81	22602	**8.031**	286.7	12.7	

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: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	18/12/2019	150.45 X 151.11 X 151.54	22735	**8.629**	392.8	17.3	17.3
PCC	M15	20/11/2019	18/12/2019	151.13 X 150.82 X 151.32	22794	**8.669**	395.2	17.3	
PCC	M15	20/11/2019	18/12/2019	150.67 X 149.19 X 149.46	22479	**8.460**	389.5	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-29-76 **Date: 27/11/2019**

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: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	151.92 X 151.80 X 151.93	23061	**8.445**	279.3	12.1	12.6
PCC	M15	20/11/2019	27/11/2019	150.29 X 149.50 X 151.61	22468	**8.892**	288.6	12.8	
PCC	M15	20/11/2019	27/11/2019	151.61 X 149.32 X 149.24	22638	**8.031**	293.5	13.0	

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Quality Manager

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: **CP-2020-01-29-76** **Date: 18/12/2019**

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: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	18/12/2019	149.94 X 151.86 X 151.31	22771	**8.629**	395.2	17.4	17.6
PCC	M15	20/11/2019	18/12/2019	150.45 X 150.89 X 150.16	22701	**8.669**	402.8	17.7	
PCC	M15	20/11/2019	18/12/2019	149.10 X 150.26 X 150.93	22404	**8.460**	394.7	17.6	

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: **CP-2020-01-29-76** **Date: 27/11/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 27/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	27/11/2019	150.11 X 150.26 X 151.67	22555	**8.445**	283.1	12.6	12.5
PCC	M15	20/11/2019	27/11/2019	151.71 X 151.83 X 150.79	23034	**8.892**	281.3	12.2	
PCC	M15	20/11/2019	27/11/2019	149.84 X 151.50 X 149.63	22701	**8.031**	292.0	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-29-76 **Date: 18/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 22-11-19

: PCC

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 18/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC	M15	20/11/2019	18/12/2019	150.42 X 151.17 X 149.47	22739	**8.629**	405.0	17.8	17.8
PCC	M15	20/11/2019	18/12/2019	149.54 X 150.63 X 150.71	22525	**8.669**	402.0	17.8	
PCC	M15	20/11/2019	18/12/2019	149.69 X 151.07 X 149.39	22614	**8.460**	397.9	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

: *CP-2020-01-29-76* ***Date: 03/12/2019***

: *Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11* Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

: BBMP/EE/BTP/WO/145/2019-20

: 28-11-19

: Culvert Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Concrete	M20	26/11/2019	03/12/2019	151.26 X 150.07 X 151.73	22698	**8.232**	412.7	18.2	18.5
Concrete	M20	26/11/2019	03/12/2019	149.08 X 149.21 X 150.50	22245	**8.771**	414.3	18.6	
Concrete	M20	26/11/2019	03/12/2019	151.58 X 151.05 X 150.34	22897	**8.764**	429.5	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-29-76 **Date: 24/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/145/2019-20

: 28-11-19

: Culvert Concrete

Size : 150X150X150 mm

Age : M20 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Concrete	M20	26/11/2019	24/12/2019	150.36 X 149.92 X 151.69	22542	**8.691**	534.6	23.7	23.1
Culvert Concrete	M20	26/11/2019	24/12/2019	149.35 X 151.59 X 151.54	22640	**8.515**	505.0	22.3	
Culvert Concrete	M20	26/11/2019	24/12/2019	149.72 X 149.75 X 150.19	22421	**8.086**	522.3	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 03/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/145/2019-20

ipt : 28-11-19

ID : Culvert Concrete

Size : 150X150X150 mm

Age : M20 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Concrete	M20	26/11/2019	03/12/2019	149.26 X 151.51 X 149.59	22614	**8.232**	415.8	18.4	18.6
Culvert Concrete	M20	26/11/2019	03/12/2019	149.66 X 150.52 X 151.05	22527	**8.771**	426.5	18.9	
Culvert Concrete	M20	26/11/2019	03/12/2019	150.38 X 150.66 X 150.46	22657	**8.764**	416.2	18.4	

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Quality Manager

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Reference : BBMP/EE/BTP/WO/145/2019-20

Receipt : 28-11-19

ID : Culvert Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Concrete	M20	26/11/2019	24/12/2019	150.55 X 149.01 X 150.83	22433	**8.691**	522.2	23.3	23.1
Culvert Concrete	M20	26/11/2019	24/12/2019	151.64 X 149.81 X 149.35	22717	**8.515**	510.4	22.5	
Culvert Concrete	M20	26/11/2019	24/12/2019	151.07 X 150.01 X 149.71	22662	**8.086**	532.8	23.5	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-01-29-76** **Date: 10/12/2019**

: Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/145/2019-20

ipt : 05-12-19

ID : Cement Concrete Pavement

/Size : 150X150X150 mm

ade/Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 10/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement	M30	03/12/2019	10/12/2019	149.53 X 149.37 X 150.85	22335	**8.380**	559.8	25.1	
ment Concrete Pavement	M30	03/12/2019	10/12/2019	149.42 X 151.55 X 151.12	22645	**8.165**	595.0	26.3	25.2
ment Concrete Pavement	M30	03/12/2019	10/12/2019	149.81 X 150.11 X 151.28	22487	**8.046**	547.4	24.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-29-76 **Date: 31/12/2019**

Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

's Reference : BBMP/EE/BTP/WO/145/2019-20

Receipt : 05-12-19

ID : Cement Concrete Pavement

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 31/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	151.07 X 149.94 X 151.09	22651	**8.113**	761.8	33.6	33.3
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.46 X 151.79 X 150.68	22686	**8.066**	741.0	32.7	
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.43 X 151.64 X 151.95	22811	**8.461**	766.9	33.6	

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: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Reference : BBMP/EE/BTP/WO/145/2019-20

ipt : 05-12-19

ID : Cement Concrete Pavement

/Size : 150X150X150 mm

ade/Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 10/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement	M30	03/12/2019	10/12/2019	151.28 X 150.21 X 151.62	22724	**8.380**	575.3	25.3	25.5
ment Concrete Pavement	M30	03/12/2019	10/12/2019	151.77 X 151.51 X 151.99	22995	**8.165**	619.8	27.0	
ment Concrete Pavement	M30	03/12/2019	10/12/2019	149.78 X 149.04 X 150.47	22322	**8.046**	540.7	24.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-01-29-76** **Date: 31/12/2019**
Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
er's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Receipt	:	05-12-19
er ID	:	Cement Concrete Pavement
Type /Size	:	150X150X150 mm
grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	31/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.41 X 150.99 X 150.40	22710	**8.113**	757.5	33.4	33.1
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.60 X 149.91 X 152.00	22425	**8.066**	723.8	32.3	
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.32 X 151.06 X 149.62	22707	**8.461**	766.0	33.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-01-29-76** **Date: 10/12/2019**
Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
er's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Receipt	:	05-12-19
er ID	:	Cement Concrete Pavement
Type /Size	:	150X150X150 mm
grade/Age	:	M30 / 7 Days Compressive Strength
ce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	10/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.32 X 151.08 X 150.52	22559	**8.380**	567.7	25.2	25.4
Cement Concrete Pavement	M30	03/12/2019	10/12/2019	149.84 X 150.36 X 149.26	22529	**8.165**	596.1	26.5	
Cement Concrete Pavement	M30	03/12/2019	10/12/2019	151.93 X 151.42 X 150.05	23004	**8.046**	563.0	24.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-29-76 **Date: 31/12/2019**

Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

's Reference : BBMP/EE/BTP/WO/145/2019-20

Receipt : 05-12-19

ID : Cement Concrete Pavement

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 31/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.18 X 149.79 X 149.81	22346	**8.113**	750.0	33.6	33.0
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	151.46 X 150.53 X 150.48	22798	**8.066**	733.7	32.2	
Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.72 X 151.11 X 149.28	22775	**8.461**	755.9	33.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-01-29-76** **Date: 12/12/2019**
Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
's Reference	:	BBMP/EE/BTP/WO/145/2019-20
Receipt	:	07-12-19
ID	:	Cement Concrete Pavement
Type /Size	:	150X150X150 mm
grade/Age	:	M30 / 7 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	12/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	151.29 X 149.46 X 151.71	22611	**8.380**	581.9	25.7	25.7
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	150.57 X 150.64 X 151.92	22683	**8.165**	604.9	26.7	
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	151.06 X 149.87 X 151.18	22639	**8.046**	557.8	24.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-01-29-76** **Date: 02/01/2020**
t Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
ey	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
f Receipt	:	07-12-19
mer ID	:	Cement Concrete Pavement
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	02/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	05/12/2019	02/01/2020	151.42 X 150.96 X 151.48	22858	**8.113**	758.3	33.2	32.9
Cement Concrete Pavement	M30	05/12/2019	02/01/2020	149.68 X 150.35 X 150.18	22504	**8.066**	724.2	32.2	
Cement Concrete Pavement	M30	05/12/2019	02/01/2020	150.97 X 150.61 X 151.83	22738	**8.461**	758.9	33.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-01-29-76** **Date: 12/12/2019**
ct Name	:	Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/145/2019-20
of Receipt	:	07-12-19
mer ID	:	Cement Concrete Pavement
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	12/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	150.87 X 151.25 X 150.52	22818	**8.380**	586.3	25.7	25.4
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	150.05 X 151.11 X 150.43	22675	**8.165**	599.1	26.4	
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	150.94 X 149.49 X 149.71	22564	**8.046**	543.7	24.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-2020-01-29-76** **Date: 02/01/2020**

ect Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

ncy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

tomer's Reference : BBMP/EE/BTP/WO/145/2019-20

e of Receipt : 07-12-19

tomer ID : Cement Concrete Pavement

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 02/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	05/12/2019	02/01/2020	149.43 X 151.33 X 151.35	22613	**8.113**	751.9	33.2	33.0
Cement Concrete Pavement	M30	05/12/2019	02/01/2020	149.16 X 149.77 X 150.18	22340	**8.066**	720.7	32.3	
Cement Concrete Pavement	M30	05/12/2019	02/01/2020	151.51 X 150.62 X 151.04	22820	**8.461**	761.4	33.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

D : **CP-2020-01-29-76** **Date: 12/12/2019**

ct Name : Improvements to Roads and Drains at Devappa Layout and surrounding area in Ward No.11 Kuvempunagara.

ncy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

mer's Reference : BBMP/EE/BTP/WO/145/2019-20

e of Receipt : 07-12-19

mer ID : Cement Concrete Pavement

ple Type /Size : 150X150X150 mm

ple grade/Age : M30 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 12/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	151.91 X 149.23 X 150.50	22670	**8.380**	567.8	25.0	25.3
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	149.99 X 149.94 X 150.25	22490	**8.165**	604.6	26.9	
Cement Concrete Pavement	M30	05/12/2019	12/12/2019	149.61 X 150.75 X 149.51	22555	**8.046**	542.6	24.1	

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QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	.1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	one Test Per 400 cum		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	5 set /50-100 cum	84.86	10	10
9	RCC (M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	26.14	8	8
10	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-29-77** **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/140/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.22	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Date.....

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-29-77** **Date: 10-12-19**
Project Name	:	Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/140/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-29-77** **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/140/2019-20
Date of Receipt	:	11-11-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	7152	7394	49.3	50.7	30-70
4	10 mm	3885	11279	75.2	24.8	10-35
5	4.75 mm	3205	14484	96.6	3.4	0-5
6	Pan	516	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-29-77** **Date: 15-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.6**	
3	Specific Gravity	**2.63**	–
4	Bulk Density(Loose) (Kg/l)	**1.43**	–
5	Bulk Density(Compacted) (Kg/l)	**1.48**	–
6	Water Absorption(%)	**0.18**	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-29-77** **Date: 13-11-19**
Project Name	:	Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Sample Condition	:	Satisfactory
Date of Receipt	:	11-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	272	272	5.4	94.6	90-100
3	10 mm	2758	3030	60.6	39.4	25-55
4	4.75 mm	1759	4789	95.8	4.2	0-10
5	Pan	211	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-29-77** **Date: 13-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.6	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	22.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-01-29-77** **Date: 13-11-19**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 11-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-01-29-77 Date: 13-11-19

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2020-01-29-77 **Date: 30-11-19**
Project Name	:	Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/140/2019-20
Date of Receipt	:	27-11-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	27-11-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	198	201	15919	33.353	2095.1	2038.5	Not less than 1800Kg/m^3
2	405	199	198	15958	31.660	1984.0		
3	404	201	198	16078	32.740	2036.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2020-01-29-77 Date: 30-11-19

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	201	200	
3	402	202	200	
4	402	201	201	
5	402	201	202	
6	400	199	202	
7	404	201	200	
8	403	201	203	
9	403	202	199	
10	403	202	199	
11	400	202	200	
12	401	200	199	
13	402	201	201	
14	401	202	201	
15	399	200	203	
16	401	202	202	
17	402	200	199	
18	399	200	199	
19	399	200	199	
20	399	202	202	
Average of 20	**401**	**201**	**201**	

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Lab ID : CP-2020-01-29-77 Date: 30-11-19

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	200	80058	374.2	4.7	4.6
2	402	201	80841	386.7	4.8	
3	402	202	81176	379.4	4.7	
4	402	201	80628	373.2	4.6	
5	402	201	80741	359.6	4.5	
6	400	199	79861	375.7	4.7	
7	404	201	81315	376.7	4.6	
8	403	201	80863	373.8	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-01-29-77** **Date: 18-11-19**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 16-11-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 16-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2020-01-29-77** **Date: 26-11-19**
Project Name	:	Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/140/2019-20
Date of Receipt	:	22-11-19
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	22/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
I	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
II	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
III	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2020-01-29-77** **Date: 07-11-19**
Project Name	:	Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/140/2019-20
Date of Receipt	:	02-11-19
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-01-29-77 **Date: 26/11/2019**
Project Name	:	Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/140/2019-20
Date of Receipt	:	21-11-19
Customer ID	:	Flagging Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	26/11/2019	149.61 X 151.29 X 151.02	22634	8.105	273.1	12.1	12.5
2	Flagging Concrete	M15	19/11/2019	26/11/2019	151.58 X 151.56 X 149.83	22973	8.535	297.3	12.9	
3	Flagging Concrete	M15	19/11/2019	26/11/2019	151.86 X 149.89 X 151.96	22761	8.563	281.3	12.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 17/12/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	17/12/2019	150.17 X 150.97 X 149.93	22670	8.755	407.6	18.0	17.7
2	Flagging Concrete	M15	19/11/2019	17/12/2019	151.05 X 151.10 X 151.40	22824	8.438	407.1	17.8	
3	Flagging Concrete	M15	19/11/2019	17/12/2019	150.19 X 150.31 X 149.19	22575	8.946	388.9	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	26/11/2019	149.68 X 151.95 X 151.25	22744	**8.105**	282.5	12.4	12.5
2	Flagging Concrete	M15	19/11/2019	26/11/2019	151.25 X 151.67 X 149.48	22940	**8.535**	282.6	12.3	
3	Flagging Concrete	M15	19/11/2019	26/11/2019	151.53 X 151.57 X 150.05	22968	**8.563**	291.3	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-01-29-77** **Date: 17/12/2019**
Project Name	:	Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/140/2019-20
Date of Receipt	:	21-11-19
Customer ID	:	Flagging Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	17/12/2019	150.46 X 150.00 X 150.25	22569	**8.755**	402.2	17.8	17.7
2	Flagging Concrete	M15	19/11/2019	17/12/2019	149.90 X 151.35 X 151.53	22686	**8.438**	396.9	17.5	
3	Flagging Concrete	M15	19/11/2019	17/12/2019	149.14 X 151.77 X 150.85	22635	**8.946**	401.5	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	26/11/2019	150.09 X 150.33 X 151.57	22563	**8.105**	283.2	12.6	12.6
2	Flagging Concrete	M15	19/11/2019	26/11/2019	151.04 X 150.92 X 149.85	22796	**8.535**	284.6	12.5	
3	Flagging Concrete	M15	19/11/2019	26/11/2019	150.99 X 150.46 X 149.67	22717	**8.563**	291.6	12.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 17/12/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	17/12/2019	150.93 X 150.27 X 151.86	22680	**8.755**	405.5	17.9	17.8
2	Flagging Concrete	M15	19/11/2019	17/12/2019	151.19 X 150.73 X 150.14	22788	**8.438**	401.9	17.6	
3	Flagging Concrete	M15	19/11/2019	17/12/2019	149.12 X 149.33 X 150.34	22267	**8.946**	399.4	17.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	26/11/2019	149.53 X 149.78 X 150.87	22396	**8.105**	286.4	12.8	12.6
2	Flagging Concrete	M15	19/11/2019	26/11/2019	150.11 X 151.70 X 151.10	22771	**8.535**	292.9	12.9	
3	Flagging Concrete	M15	19/11/2019	26/11/2019	151.35 X 151.86 X 151.66	22983	**8.563**	281.9	12.3	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 17/12/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	17/12/2019	149.62 X 151.41 X 150.14	22654	**8.755**	388.7	17.2	17.1
2	Flagging Concrete	M15	19/11/2019	17/12/2019	151.81 X 150.13 X 149.05	22792	**8.438**	391.2	17.2	
3	Flagging Concrete	M15	19/11/2019	17/12/2019	151.56 X 149.95 X 149.17	22727	**8.946**	388.0	17.1	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	26/11/2019	149.00 X 151.95 X 151.92	22641	**8.105**	276.2	12.2	12.5
2	Flagging Concrete	M15	19/11/2019	26/11/2019	150.35 X 149.34 X 151.80	22454	**8.535**	277.3	12.3	
3	Flagging Concrete	M15	19/11/2019	26/11/2019	149.02 X 149.38 X 149.89	22261	**8.563**	288.7	13.0	

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Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	17/12/2019	149.62 X 151.41 X 150.14	22654	**8.755**	388.7	17.2	17.1
2	Flagging Concrete	M15	19/11/2019	17/12/2019	151.81 X 150.13 X 149.05	22792	**8.438**	391.2	17.2	
3	Flagging Concrete	M15	19/11/2019	17/12/2019	151.56 X 149.95 X 149.17	22727	**8.946**	388.0	17.1	

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Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	26/11/2019	149.00 X 151.95 X 151.92	22641	**8.105**	276.2	12.2	12.5
2	Flagging Concrete	M15	19/11/2019	26/11/2019	150.35 X 149.34 X 151.80	22454	**8.535**	277.3	12.3	
3	Flagging Concrete	M15	19/11/2019	26/11/2019	149.02 X 149.38 X 149.89	22261	**8.563**	288.7	13.0	

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Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 21-11-19

Customer ID : Flagging Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flagging Concrete	M15	19/11/2019	17/12/2019	149.42 X 149.73 X 150.61	22373	**8.755**	389.0	17.4	17.6
2	Flagging Concrete	M15	19/11/2019	17/12/2019	151.48 X 149.82 X 150.34	22694	**8.438**	407.6	18.0	
3	Flagging Concrete	M15	19/11/2019	17/12/2019	149.17 X 150.58 X 150.68	22462	**8.946**	391.8	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : **CP-2020-01-29-77** **Date: 05/12/2019**

roject Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

gency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

ustomer's Reference : BBMP/EE/BTP/140/2019-20

ate of Receipt : 30-11-19

ustomer ID : Culvert Bottom Slab Concrete

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 7 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ate of test : 05/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	28/11/2019	05/12/2019	150.18 X 150.47 X 149.73	22597	**8.600**	407.3	18.0	18.1
2	Culvert Bottom Slab Concrete	M20	28/11/2019	05/12/2019	150.54 X 149.85 X 149.85	22558	**8.330**	408.4	18.1	
3	Culvert Bottom Slab Concrete	M20	28/11/2019	05/12/2019	149.86 X 151.56 X 151.12	22712	**8.754**	413.9	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-29-77 **Date: 26/12/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 30-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M15	28/11/2019	26/12/2019	151.97 X 149.40 X 151.60	22705	**8.562**	541.8	23.9	23.4
2	Culvert Bottom Slab Concrete	M15	28/11/2019	26/12/2019	150.64 X 151.16 X 149.49	22771	**8.444**	523.4	23.0	
3	Culvert Bottom Slab Concrete	M15	28/11/2019	26/12/2019	151.87 X 149.67 X 151.83	22731	**8.767**	529.2	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 05/12/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 30-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	28/11/2019	05/12/2019	149.50 X 151.67 X 149.31	22676	**8.600**	424.3	18.7	
2	Culvert Bottom Slab Concrete	M20	28/11/2019	05/12/2019	150.89 X 151.27 X 150.33	22826	**8.330**	413.3	18.1	18.5
3	Culvert Bottom Slab Concrete	M20	28/11/2019	05/12/2019	149.42 X 150.26 X 151.69	22453	**8.754**	419.2	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 26/12/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 30-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M15	28/11/2019	26/12/2019	150.15 X 149.91 X 151.85	22509	8.562	526.1	23.4	22.9
2	Culvert Bottom Slab Concrete	M15	28/11/2019	26/12/2019	151.19 X 151.60 X 150.78	22921	8.444	510.5	22.3	
3	Culvert Bottom Slab Concrete	M15	28/11/2019	26/12/2019	150.91 X 149.11 X 149.35	22502	8.767	519.2	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 09/12/2019**

Project Name : Improvements to Roads and Drains at Raghavendra Colony and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 04-12-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	02/12/2019	09/12/2019	149.99 X 150.30 X 150.07	22544	**8.600**	410.5	18.2	18.1
2	Culvert Side Wall Concrete	M20	02/12/2019	09/12/2019	150.24 X 150.59 X 151.05	22626	**8.330**	407.7	18.0	
3	Culvert Side Wall Concrete	M20	02/12/2019	09/12/2019	150.75 X 150.23 X 151.36	22648	**8.754**	409.8	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-29-77** **Date: 30/12/2019**

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Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 04-12-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M15	02/12/2019	30/12/2019	151.18 X 150.94 X 150.81	22819	8.562	536.5	23.5	23.3
2	Culvert Side Wall Concrete	M15	02/12/2019	30/12/2019	150.98 X 149.77 X 149.27	22612	8.444	511.2	22.6	
3	Culvert Side Wall Concrete	M15	02/12/2019	30/12/2019	150.12 X 151.38 X 151.59	22725	8.767	541.7	23.8	

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Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 04-12-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	02/12/2019	09/12/2019	150.57 X 150.36 X 150.30	22641	**8.600**	408.8	18.1	18.1
2	Culvert Side Wall Concrete	M20	02/12/2019	09/12/2019	151.52 X 151.12 X 151.25	22897	**8.330**	414.7	18.1	
3	Culvert Side Wall Concrete	M20	02/12/2019	09/12/2019	149.09 X 151.76 X 149.37	22626	**8.754**	409.9	18.1	

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Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/140/2019-20

Date of Receipt : 04-12-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M15	02/12/2019	30/12/2019	149.51 X 150.39 X 149.82	22484	**8.562**	536.7	23.9	23.2
2	Culvert Side Wall Concrete	M15	02/12/2019	30/12/2019	149.40 X 151.99 X 150.48	22707	**8.444**	499.9	22.0	
3	Culvert Side Wall Concrete	M15	02/12/2019	30/12/2019	151.07 X 151.95 X 149.74	22955	**8.767**	541.7	23.6	

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QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	RCC(M20)	Compressive Strength(7days and 28days)	11 set /350-400 cum	373.21	22	22

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-04-25-29** **Date: 17-09-21**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 14-09-21

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 15-09-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	282.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	30.0%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0 mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2022-04-25-29 **Date: 13-10-21**
Project Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	14-09-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	15-09-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-25-29** **Date: 17-09-21**
Project Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	14-09-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	388	388	2.6	97.4	90-100
3	20 mm	6685	7073	47.2	52.8	30-70
4	10 mm	4895	11968	79.8	20.2	10-35
5	4.75 mm	2601	14569	97.1	2.9	0-5
6	Pan	431	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-04-25-29** **Date: 17-09-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.1	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.21	–

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-25-29** **Date: 16-09-21**
Project Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	14-09-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	252	252	5.0	95.0	90-100
3	10 mm	2311	2563	51.3	48.7	25-55
4	4.75 mm	2075	4638	92.8	7.2	0-10
5	Pan	362	5000	100	0	–

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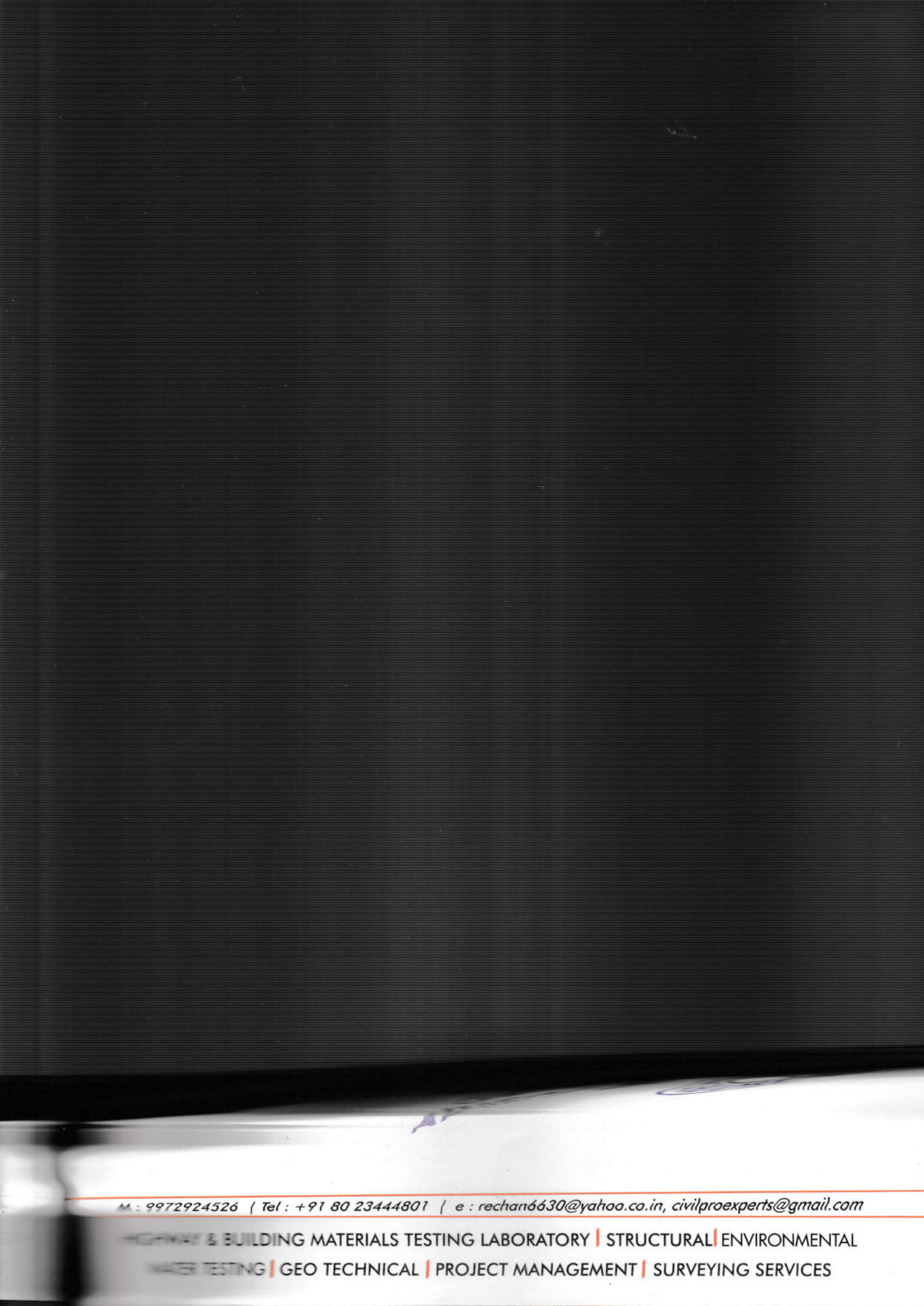

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-25-29** **Date: 16-09-21**
Project Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	14-09-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	252	252	5.0	95.0	90-100
3	10 mm	2311	2563	51.3	48.7	25-55
4	4.75 mm	2075	4638	92.8	7.2	0-10
5	Pan	362	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-25-29 Date: 16-09-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.1	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.18	–
7	Aggregate crushing Value(%)	24.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-04-25-29** **Date: 16-09-21**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 14-09-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 14-09-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	48	80	8.0	92.0	60-95	75-100	85-100	95-100
4	1.18 mm	232	312	31.2	68.8	30-70	55-90	75-100	90-100
5	600 micron	185	497	49.7	50.3	15-34	35-59	60-79	80-100
6	300 micron	288	785	78.5	21.5	5-20	8-30	12-40	15-50
7	150 micron	154	939	93.9	6.1	0-10	0-10	0-10	0-15
8	Pan	61	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-04-25-29 Date: 16-09-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.23	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : **CP-2022-04-25-29**

Date: 16-09-21

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 14-09-21

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test: : 15-09-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
2	Sunvik	Fe500	10	0.614	543	653	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	565	682	20.0%	Satisfactory	Satisfactory

*The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

[illegible]	:	CP-2022-04-25-29 **Date: 01-10-21**
[illegible] Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
[illegible]	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
[illegible]'s Reference	:	BBMP/EE/BTP/WO/146/2019-20
[illegible] Receipt	:	27-09-21
[illegible] Type /Size	:	Precast Cover Slab 100mm Thick
[illegible] to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
[illegible] Test	:	27/09/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.02	100.51	1.385	4419	85.3	19.3	18.0	22.4
2	Cover Slab-2	75.01	100.49	1.366	4418	80.8	18.3	17.0	21.3
3	Cover Slab-3	75.03	100.52	1.378	4421	83.2	18.8	17.5	21.9

[illegible]sults obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2022-04-25-29
Client Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	27-09-21
Sample Type /Size	:	Precast Cover Slab 250mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	27/09/2021

Date: 01-10-21

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.02	250.51	3.862	31416	492.1	15.7	14.6	18.2
2	Cover Slab-2	200.04	250.52	3.855	31423	502.7	16.0	14.9	18.6
3	Cover Slab-3	200.01	250.49	3.873	31413	510.0	16.2	15.1	18.9

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

: CP-2022-04-25-29 **Date: 01-10-21**

Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Reference : BBMP/EE/BTP/WO/146/2019-20

Receipt : 27-09-21

Type /Size : CC Kerb Stone/ 450*165*400mm

to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

test : 27/09/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	100.02	165.51	2.885	7856	145.2	18.5	18.5	23.1
B	100.03	165.49	2.899	7857	149.6	19.0	19.0	23.8
C	100.01	165.52	2.915	7854	154.8	19.7	19.7	24.6

results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29**

Date: 16/10/2021

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 11-10-21

Customer ID : Drain Bottom Raft- SMR Apartment Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	16/10/2021	151.09 X 151.17 X 151.73	22841	8.126	433.2	19.0	18.8
2	Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	16/10/2021	150.67 X 149.13 X 150.70	22470	8.833	416.3	18.5	
3	Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	16/10/2021	151.48 X 149.57 X 150.99	22657	8.561	429.4	19.0	

The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 06/11/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 11-10-21

Customer ID : Drain Bottom Raft- SMR Apartment Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	06/11/2021	149.42 X 149.66 X 149.31	22363	8.417	519.4	23.2	23.1
2	Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	06/11/2021	151.18 X 150.50 X 149.79	22752	9.094	532.9	23.4	
3	Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	06/11/2021	151.25 X 149.27 X 150.70	22577	8.906	512.8	22.7	

Results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL Pro Sig. Date BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-25-29 **Date: 16/10/2021**

: Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

: Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

's Reference : BBMP/EE/BTP/WO/146/2019-20

Receipt : 11-10-21

ID : Drain Bottom Raft- SMR Apartment Main Road

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 16/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	16/10/2021	150.16 X 149.62 X 151.38	22468	8.969	424.2	18.9	18.5
Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	16/10/2021	149.57 X 150.47 X 151.98	22505	8.234	410.4	18.2	
Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	16/10/2021	150.06 X 151.18 X 151.74	22687	8.107	415.7	18.3	

esults obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 06/11/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : *11-10-21*

Customer ID : Drain Bottom Raft- SMR Apartment Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	06/11/2021	150.84 X 151.57 X 151.67	22863	8.428	526.1	23.0	22.8
2	Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	06/11/2021	149.73 X 150.81 X 149.79	22581	8.137	508.5	22.5	
3	Drain Bottom Raft-SMR Apartment Main Road	M20	09/10/2021	06/11/2021	151.25 X 151.28 X 149.20	22880	8.683	524.8	22.9	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL Pro Sig Date BANGALORE

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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 19/10/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 16-10-21

Customer ID : Drain Bottom Raft- Rajeshwari Badavane Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	19/10/2021	151.81 X 151.13 X 149.98	22942	8.541	426.7	18.6	18.5
2	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	19/10/2021	150.36 X 149.52 X 151.46	22483	8.318	424.4	18.9	
3	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	19/10/2021	151.92 X 150.75 X 150.55	22902	8.510	414.7	18.1	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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CIVIL Pro Sig. Date BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 09/11/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 16-10-21

Customer ID : Drain Bottom Raft- Rajeshwari Badavane Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	09/11/2021	150.42 X 150.22 X 149.08	22596	8.332	531.5	23.5	23.0
2	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	09/11/2021	151.76 X 149.36 X 150.63	22667	8.909	514.8	22.7	
3	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	09/11/2021	149.98 X 151.14 X 149.61	22668	8.510	513.2	22.6	

Remarks: The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL Pro Sig. Date BANGALORE

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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29**

Date: 19/10/2021

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 16-10-21

Customer ID : Drain Bottom Raft- Rajeshwari Badavane Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	19/10/2021	149.95 X 151.60 X 150.65	22732	8.474	431.1	19.0	18.4
2	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	19/10/2021	149.30 X 150.31 X 149.69	22442	8.703	405.6	18.1	
3	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	19/10/2021	151.76 X 151.40 X 150.19	22976	8.861	414.9	18.1	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL Pro Sig. Date. BANGALORE

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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29**

Date: 09/11/2021

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 16-10-21

Customer ID : Drain Bottom Raft- Rajeshwari Badavane Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	09/11/2021	149.02 X 150.22 X 149.91	22387	8.984	536.3	24.0	23.4
2	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	09/11/2021	149.46 X 151.42 X 150.41	22632	8.220	530.3	23.4	
3	Drain Bottom Raft-Rajeshwari Badavane Main Road	M20	12/10/2021	09/11/2021	151.68 X 149.73 X 151.09	22711	8.258	515.0	22.7	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL Pro. Sig. Date BANGALORE

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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY / STRUCTURAL / ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	***CP-2022-04-25-29*** **Date: 23/10/2021**
Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	18-10-21
Customer ID	:	Drain Side Wall- Slamp Board Back Side
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	23/10/2021	150.11 X 151.05 X 150.40	22674	8.636	418.9	18.5	18.5
2	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	23/10/2021	151.90 X 149.38 X 150.51	22690	8.164	409.1	18.0	
3	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	23/10/2021	149.76 X 149.05 X 151.21	22322	8.229	423.6	19.0	

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL Pro Sig. Date. BANGALORE

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Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 13/11/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 18-10-21

Customer ID : Drain Side Wall- Slamp Board Back Side

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of Test : 13/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	13/11/2021	151.80 X 149.26 X 151.65	22658	8.947	526.5	23.2	22.8
2	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	13/11/2021	150.90 X 149.14 X 150.22	22506	8.484	517.6	23.0	
3	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	13/11/2021	149.25 X 150.21 X 150.78	22419	8.571	495.7	22.1	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 23/10/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 18-10-21

Customer ID : Drain Side Wall- Slamp Board Back Side

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	23/10/2021	149.36 X 149.32 X 151.54	22302	8.211	407.4	18.3	18.4
2	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	23/10/2021	150.37 X 151.38 X 151.56	22764	8.194	430.5	18.9	
3	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	23/10/2021	150.23 X 150.66 X 151.73	22634	8.378	410.0	18.1	

The results obtained are satisfactory as per standard requirements.

AEE (KRP) SD

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 13/11/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 18-10-21

Customer ID : Drain Side Wall- Slamp Board Back Side

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	13/11/2021	149.02 X 149.89 X 151.38	22336	9.087	514.8	23.0	22.9
2	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	13/11/2021	149.40 X 151.22 X 150.52	22592	8.226	523.0	23.2	
3	Drain Side Wall-Slamp Board Back Side	M20	16/10/2021	13/11/2021	151.82 X 150.67 X 151.56	22874	8.848	515.6	22.5	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-04-25-29 **Date: 27/10/2021**
Project Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	22-10-21
Customer ID	:	Drain Side Wall- Prakruthi Layout dead end Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	27/10/2021	150.16 X 150.01 X 149.28	22526	8.541	421.3	18.7	18.7
2	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	27/10/2021	149.73 X 151.94 X 150.13	22749	9.028	421.1	18.5	
3	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	27/10/2021	149.57 X 149.96 X 149.14	22430	8.954	421.8	18.8	

The results obtained are satisfactory as per standard requirements.

AEE (KRPT) SD

CIVIL Pro Sig Date BANGALORE

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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 17/11/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 22-10-21

Customer ID : Drain Side Wall- Prakruthi Layout dead end Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	17/11/2021	149.28 X 149.39 X 150.42	22301	8.526	530.8	23.8	23.0
2	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	17/11/2021	151.78 X 151.68 X 150.55	23022	8.662	524.4	22.8	
3	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	17/11/2021	150.30 X 151.06 X 151.93	22705	9.054	507.1	22.3	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 27/10/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 22-10-21

Customer ID : Drain Side Wall- Prakruthi Layout dead end Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	27/10/2021	150.26 X 149.00 X 151.31	22389	8.497	408.5	18.2	18.6
2	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	27/10/2021	150.78 X 151.75 X 151.67	22881	8.229	426.6	18.6	
3	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	27/10/2021	149.18 X 151.22 X 149.83	22558	8.874	427.6	19.0	

The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL PRO Sig. Date BANGALORE

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Quality Manager

AEE (VRP) SD

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 17/11/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 22-10-21

Customer ID : Drain Side Wall- Prakruthi Layout dead end Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	17/11/2021	150.39 X 150.65 X 149.44	22656	9.097	537.0	23.7	23.0
2	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	17/11/2021	150.69 X 151.04 X 151.44	22761	8.875	514.9	22.6	
3	Drain Side Wall-Prakruthi Layout dead end Road	M20	20/10/2021	17/11/2021	150.86 X 151.00 X 151.34	22781	8.932	517.3	22.7	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL PRO Sig. Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY / STRUCTURAL / ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-25-29** **Date: 02/11/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 28-10-21

Customer ID : Culvert Bottom Raft- Prakruthi Layout dead end Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft-Prakruthi Layout dead end Road	M20	26/10/2021	02/11/2021	150.68 X 151.37 X 150.55	22808	8.396	413.4	18.1	18.1
2	Culvert Bottom Raft-Prakruthi Layout dead end Road	M20	26/10/2021	02/11/2021	150.54 X 150.88 X 151.49	22713	8.829	413.6	18.2	
3	Culvert Bottom Raft-Prakruthi Layout dead end Road	M20	26/10/2021	02/11/2021	151.05 X 150.11 X 151.77	22674	8.386	409.0	18.0	

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-04-25-29** **Date: 23/11/2021**
Project Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	28-10-21
Customer ID	:	Culvert Bottom Raft- Prakruthi Layout dead end Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft-Prakruthi Layout dead end Road	M20	26/10/2021	23/11/2021	150.35 X 149.48 X 149.51	22475	8.692	534.7	23.8	23.2
2	Culvert Bottom Raft-Prakruthi Layout dead end Road	M20	26/10/2021	23/11/2021	151.91 X 150.09 X 150.83	22801	9.069	522.9	22.9	
3	Culvert Bottom Raft-Prakruthi Layout dead end Road	M20	26/10/2021	23/11/2021	150.91 X 151.10 X 151.91	22804	8.853	520.8	22.8	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SB

CIVIL Pro Sig Date BANGALORE

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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-04-25-29 **Date: 06/11/2021**

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 02-11-21

Customer ID : Culvert Side Wall- Prakruthi Layout dead end Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	06/11/2021	151.78 X 149.70 X 150.35	22721	8.233	420.0	18.5	18.4
2	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	06/11/2021	149.56 X 151.06 X 151.23	22591	8.401	411.3	18.2	
3	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	06/11/2021	151.96 X 149.16 X 150.30	22666	8.573	422.4	18.6	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SW

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	***CP-2022-04-25-29*** **Date: 27/11/2021**
Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	02-11-21
Customer ID	:	Culvert Side Wall- Prakruthi Layout dead end Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	27/11/2021	151.88 X 150.38 X 150.79	22840	8.527	536.9	23.5	23.1
2	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	27/11/2021	149.53 X 150.72 X 150.47	22537	8.616	526.4	23.4	
3	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	27/11/2021	151.81 X 151.21 X 150.22	22954	8.247	514.5	22.4	

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-04-25-29** **Date: 06/11/2021**
Work Name	:	Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/BTP/WO/146/2019-20
Date of Receipt	:	02-11-21
Customer ID	:	Culvert Side Wall- Prakruthi Layout dead end Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	06/11/2021	149.40 X 149.80 X 149.81	22381	8.901	418.1	18.7	18.6
2	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	06/11/2021	150.36 X 151.93 X 151.11	22845	8.373	424.6	18.6	
3	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	06/11/2021	150.59 X 150.25 X 149.25	22626	8.763	421.5	18.6	

The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL PRO BANGALORE Sig. Date

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-25-29

Date: 27/11/2021

Project Name : Improvements to Roads and Drains at Varadarajanagar and surrounding area in Ward No.11 Kuvempunagara.

Agency : Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th Cross road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010.

Customer's Reference : BBMP/EE/BTP/WO/146/2019-20

Date of Receipt : 02-11-21

Customer ID : Culvert Side Wall- Prakruthi Layout dead end Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	27/11/2021	149.38 X 150.12 X 149.78	22424	8.476	536.6	23.9	23.2
2	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	27/11/2021	151.40 X 151.23 X 150.52	22896	8.666	534.3	23.3	
3	Culvert Side Wall-Prakruthi Layout dead end Road	M20	30/10/2021	27/11/2021	149.61 X 149.70 X 150.07	22397	8.975	501.8	22.4	

* The results obtained are satisfactory as per standard requirements.

AEE (VRP) SD

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

NAME OF WORK:-Improvements to roads and drains to Vinayaka nagar and surrounding areas in ward no.11 in Kuvempunagar

First and Final Bill

Quality Control Reports

QC ABSTRACT

NAME OF WORK: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	RCC(M20)	Compressive Strength(7days and 28days)	8 set /200-250 cum	219.66	16	16
10	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	8 set /200-250 cum	235.46	16	16

EXECUTIVE ENGINEER
Sub-Division
Malleswaram Palike

Format No. CPTF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-12-10-28** **Date: 19-04-21**
Project Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
Date of Receipt	:	16-04-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification . IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-04-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	-
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	-
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro
Sig.....
Date.....
BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-12-10-28** **Date: 15-05-21**
Project Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
Date of Receipt	:	16-04-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-04-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-10-28** **Date: 19-04-21**
Project Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
Date of Receipt	:	16-04-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-04-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-12-10-28** **Date: 19-04-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.17	_

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-10-28** **Date: 19-04-21**
Project Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/131/2019-20
Date of Receipt	:	16-04-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-04-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-12-10-28** **Date: 19-04-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	-
4	Bulk Density(Loose) (Kg/l)	1.53	-
5	Bulk Density(Compacted) (Kg/l)	1.57	-
6	Water Absorption(%)	0.19	-
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-12-10-28

Date: 19-04-21

Project Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/131/2019-20

Date of Receipt : 16-04-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 16-04-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

h ID : CP-2020-12-10-28 Date: 19-04-21

HYSICAL PROPERTIES

no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	
2	Specific Gravity	2.59	
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

ab ID	:	**CP-2020-12-10-28** **Date: 18-04-21**
roject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
ustomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
ate of Receipt	:	16-04-21
ample Type	:	Sunvik
eference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
ate of test:	:	16-04-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

	:	**CP-2020-12-10-28** **Date: 26-04-21**
Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
er's Reference	:	BBMP/EE/BTP/WO/131/2019-20
Receipt	:	21-04-21
Type /Size	:	Precast Cover Slab (100mm)
e to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
test	:	21/04/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

ults obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Date: 26-04-21

: CP-2020-12-10-28

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 21-04-21

Type /Size : Precast Cover Slab (250mm)

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

test : 21/04/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	200.51	250.48	3.116	31570	573.9	18.2	16.9	21.1
Cover Slab-2	200.49	250.52	3.122	31564	576.9	18.3	17.0	21.2
Cover Slab-3	200.50	250.51	3.118	31567	571.5	18.1	16.8	21.0

sults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE KERB STONE

: CP-2020-12-10-28 **Date: 27-04-21**

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

ner's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 23-04-21

Type /Size : CC Kerb Stone/ 450*165*400mm

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

test : 23/04/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

ults obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 05/05/2021**
ect Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
omer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	30-04-21
omer ID	:	Drain Bottom Slab Concrete (Sai Garden- Main Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	05/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	150.49 X 149.39 X 150.95	22482	**8.568**	414.3	18.4	18.6
Drain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	151.39 X 149.58 X 149.48	22645	**8.773**	418.0	18.5	
Drain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	149.45 X 149.86 X 149.18	22396	**8.251**	420.3	18.8	

sults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-2020-12-10-28**

Date: 26/05/2021

ect Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

ncy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

omer's Reference : BBMP/EE/BTP/WO/131/2019-20

of Receipt : 30-04-21

omer ID : Drain Bottom Slab Concrete (Sai Garden- Main Road)

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 26/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	149.92 X 150.05 X 151.86	22496	**9.004**	520.0	23.1	23.1
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	151.66 X 151.33 X 150.07	22951	**8.835**	514.4	22.4	
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	151.85 X 151.58 X 151.90	23018	**8.533**	548.5	23.8	

esults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-12-10-28** **Date: 05/05/2021**
Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
r's Reference	:	BBMP/EE/BTP/WO/131/2019-20
Receipt	:	30-04-21
r ID	:	Drain Bottom Slab Concrete (Prakruthi Layout- Main Road)
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 7 Days Compressive Strength
e to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
est	:	05/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	151.46 X 149.67 X 150.05	22669	**8.568**	429.3	18.9	18.5
ain Bottom Raft Concrete	M20	28/04/2021	05/05/2021	150.90 X 151.43 X 149.32	22850	**8.773**	413.8	18.1	
in Bottom Raft Concrete	M20	28/04/2021	05/05/2021	149.15 X 150.29 X 150.73	22415	**8.251**	413.7	18.5	

obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2020-12-10-28 **Date: 26/05/2021**

t Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

mer's Reference : BBMP/EE/BTP/WO/131/2019-20

f Receipt : 30-04-21

mer ID : Drain Bottom Slab Concrete (Prakruthi Layout- Main Road)

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 26/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	150.03 X 151.01 X 151.08	22656	**9.004**	539.6	23.8	23.3
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	149.38 X 150.60 X 150.80	22496	**8.835**	501.4	22.3	
Drain Bottom Raft Concrete	M20	28/04/2021	26/05/2021	149.04 X 151.33 X 150.77	22554	**8.533**	535.3	23.7	

ults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 08/05/2021**

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 03-05-21

er ID : Drain Side Wall Concrete (Prakruthi Layout- 1st Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 08/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	149.85 X 150.16 X 149.63	22501	**8.946**	406.4	18.1	18.1
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	150.85 X 151.61 X 149.24	22870	**8.204**	413.4	18.1	
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	149.54 X 150.12 X 151.46	22449	**8.816**	406.4	18.1	

ılts obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/11/01

Lab ID : CP-2020-12-10-28

Project Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

Date: 29/05/2021

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/131/2019-20

Date of Receipt : 03-05-21

Customer ID : Drain Side Wall Concrete (Prakruthi Layout- 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	150.93 X 149.24 X 149.72	22526	8.175	528.6	23.5	23.2
	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.56 X 150.08 X 151.84	22446	8.310	508.0	22.6	
	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	150.62 X 150.06 X 151.06	22603	8.765	530.4	23.5	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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B KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/05/2021

ple ID	:	**CP-2020-12-10-28**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	03-05-21
tomer ID	:	Drain Side Wall Concrete (Prakruthi Layout- 1st Cross Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	08/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	151.97 X 150.83 X 151.08	22923	**8.946**	426.8	18.6	18.6
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	151.28 X 151.31 X 149.96	22890	**8.204**	423.2	18.5	
Drain Side Wall Concrete	M20	01/05/2021	08/05/2021	150.34 X 151.12 X 151.03	22719	**8.816**	425.8	18.7	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangalore Mahanagara Palike

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No : TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-12-10-28

Project Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara." **Date: 29/05/2021**

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/131/2019-20

Date of Receipt : 03-05-21

Customer ID : Drain Side Wall Concrete (Prakruthi Layout- 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.76 X 149.99 X 151.61	22464	8.175	533.0	23.7	23.3
2	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	151.72 X 149.39 X 150.25	22666	8.310	509.0	22.5	
3	Drain Side Wall Concrete	M20	01/05/2021	29/05/2021	149.71 X 150.38 X 149.15	22512	8.765	534.7	23.8	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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P KARTHIK RECHAN
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Quality Manager

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CIVIL PRO

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 10/05/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	05-05-21
tomer ID	:	Drain Side Wall Concrete (Varada raj nagar - 5th Cross Road)
ple Type /Size	:	150X150X150 mm
ple grade/ Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 'Methods of Tests for Strength of Concrete CL5
e of test	:	10/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	151.67 X 151.78 X 150.50	23020	8.946	430.1	18.7	18.5
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	151.23 X 149.77 X 149.88	22651	8.204	423.4	18.7	
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	150.60 X 151.68 X 151.47	22844	8.816	413.2	18.1	

e results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2020-12-10-28 **Date: 31/05/2021**

ect Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

cy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

omer's Reference : BBMP/EE/BTP/WO/131/2019-20

of Receipt : 05-05-21

omer ID : Drain Side Wall Concrete (Varada raj nagar - 5th Cross Road)

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	149.12 X 149.54 X 151.24	22299	**8.175**	524.5	23.5	23.0
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	150.04 X 150.54 X 149.01	22586	**8.310**	498.9	22.1	
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	151.34 X 151.76 X 149.66	22968	**8.765**	535.2	23.3	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 10/05/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	05-05-21
tomer ID	:	Drain Side Wall Concrete (Varada raj nagar - Main road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	10/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	150.88 X 149.42 X 149.68	22545	**8.946**	425.4	18.9	18.6
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	149.05 X 151.70 X 149.77	22612	**8.204**	408.3	18.1	
Drain Side Wall Concrete	M20	03/05/2021	10/05/2021	151.40 X 149.96 X 149.13	22704	**8.816**	427.1	18.8	

e results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/05/2021

b ID	:	**CP-2020-12-10-28**
oject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
stomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
te of Receipt	:	05-05-21
stomer ID	:	Drain Side Wall Concrete (Varada raj nagar - Main road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	151.47 X 149.68 X 149.15	22673	8.175	529.8	23.4	23.0
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	150.96 X 150.14 X 151.18	22664	8.310	511.4	22.6	
Drain Side Wall Concrete	M20	03/05/2021	31/05/2021	151.34 X 149.94 X 150.16	22693	8.765	523.5	23.1	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara...

CIVIL Pro Sig..... Date..... BANGALORE

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2020-12-10-28	Date: 13/05/2021
b ID	: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."	
ject Name	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010	
gency	: BBMP/EE/BTP/WO/131/2019-20	
stomer's Reference	: 08-05-21	
te of Receipt	: Culvert Bottom Raft Concrete (Sai Garden)	
stomer ID	: 150X150X150 mm	
mple Type /Size	: M20 / 7 Days Compressive Strength	
mple grade/Age	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
ference to BIS codes	: 13/05/2021	
te of test		

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Culvert Bottom Raft Concrete	M20	06/05/2021	13/05/2021	149.26 X 149.57 X 149.58	22324	8.568	419.6	18.8	18.8
2	Culvert Bottom Raft Concrete	M20	06/05/2021	13/05/2021	149.08 X 150.33 X 151.10	22411	8.773	423.0	18.9	
3	Culvert Bottom Raft Concrete	M20	06/05/2021	13/05/2021	150.27 X 149.88 X 151.36	22523	8.251	421.5	18.7	

The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

h ID	:	CP-2020-12-10-28 **Date: 03/06/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	08-05-21
tomer ID	:	Culvert Bottom Raft Concrete (Sai Garden)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	03/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Bottom Raft Concrete	M20	06/05/2021	03/06/2021	151.05 X 151.41 X 150.86	22870	**9.004**	538.2	23.5	23.3
Culvert Bottom Raft Concrete	M20	06/05/2021	03/06/2021	151.77 X 151.90 X 151.51	23054	**8.835**	520.3	22.6	
Culvert Bottom Raft Concrete	M20	06/05/2021	03/06/2021	149.32 X 150.87 X 150.66	22528	**8.533**	534.4	23.7	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 17/05/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
omer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	12-05-21
omer ID	:	Culvert Side Wall Concrete (Prakruthi Layout)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	17/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Side Wall Concrete	M20	10/05/2021	17/05/2021	150.73 X 149.91 X 150.08	22596	**8.568**	416.4	18.4	18.4
Culvert Side Wall Concrete	M20	10/05/2021	17/05/2021	151.88 X 150.10 X 150.69	22797	**8.773**	419.5	18.4	
Culvert Side Wall Concrete	M20	10/05/2021	17/05/2021	150.30 X 149.28 X 150.17	22436	**8.251**	414.8	18.5	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/06/2021

b ID	:	CP-2020-12-10-28
oject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
ustomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
ate of Receipt	:	12-05-21
ustomer ID	:	Culvert Side Wall Concrete (Prakruthi Layout)
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test	:	07/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	10/05/2021	07/06/2021	149.66 X 149.17 X 149.78	22325	9.004	515.0	23.1	23.0
2	Culvert Side Wall Concrete	M20	10/05/2021	07/06/2021	149.54 X 150.36 X 150.96	22486	8.835	498.5	22.2	
3	Culvert Side Wall Concrete	M20	10/05/2021	07/06/2021	149.32 X 149.48 X 151.13	22321	8.533	529.1	23.7	

The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R K MURTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 31/05/2021**
ect Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
omer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	26-05-21
omer ID	:	Cement Concrete Pavement (Vinayak Nagar- Bhairaveshwara Swammy Floor Mill)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.12 X 150.20 X 149.28	22398	**8.914**	570.1	25.5	25.5
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	151.83 X 149.72 X 151.40	22733	**9.071**	593.4	26.1	
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	150.83 X 151.30 X 149.23	22820	**8.776**	570.0	25.0	

ults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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CIVIL PRO
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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

) ID	:	**CP-2020-12-10-28** **Date: 21/06/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	26-05-21
tomer ID	:	Cement Concrete Pavement (Vinayak Nagar- Bhairaveshwara Swammy Floor Mill)
iple Type /Size	:	150X150X150 mm
iple grade/Age	:	M30 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	21/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.76 X 150.13 X 149.69	22633	**8.775**	749.0	33.1	33.0
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	151.25 X 150.22 X 151.60	22720	**8.456**	734.0	32.3	
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	151.85 X 149.23 X 151.12	22661	**9.094**	758.2	33.5	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
...an Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R.HARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/05/2021

ID	:	**CP-2020-12-10-28**
ct Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
cy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
mer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	26-05-21
mer ID	:	Cement Concrete Pavement (Vinayak Nagar- Bhairaveshwara Swammy Floor Mill)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	31/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	149.88 X 151.11 X 151.09	22648	**8.914**	588.4	26.0	25.7
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	150.66 X 151.67 X 151.63	22850	**9.071**	607.6	26.6	
Cement Concrete Pavement	M30	24/05/2021	31/05/2021	151.63 X 149.84 X 150.15	22721	**8.776**	556.9	24.5	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2020-12-10-28 **Date: 21/06/2021**

ect Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

ncy : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

omer's Reference : BBMP/EE/BTP/WO/131/2019-20

of Receipt : 26-05-21

omer ID : Cement Concrete Pavement (Vinayak Nagar- Bhairaveshwara Swammy Floor Mill)

ple Type /Size : 150X150X150 mm

ple grade/Age : M30 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 21/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	151.04 X 149.30 X 151.07	22551	8.775	744.9	33.0	33.0
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.80 X 151.03 X 150.95	22775	8.456	745.4	32.7	
Cement Concrete Pavement	M30	24/05/2021	21/06/2021	150.48 X 151.94 X 150.00	22865	9.094	758.9	33.2	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R K KARTHIK RECHAN
Authorized Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/06/2021

D	:	**CP-2020-12-10-28**
t Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
y	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
mer's **Reference**	:	BBMP/EE/BTP/WO/131/2019-20
f **Receipt**	:	27-05-21
mer ID	:	Cement Concrete Pavement (Varadharaj Nagar- 5th Cross Road)
le **Type /Size**	:	150X150X150 mm
le **grade/Age**	:	M30 / 7 Days Compressive Strength
ence **to BIS codes**	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	01/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	150.11 X 150.61 X 151.52	22609	**8.914**	576.4	25.5	25.4
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	149.16 X 149.19 X 150.70	22255	**9.071**	590.1	26.5	
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	151.29 X 150.50 X 149.70	22769	**8.776**	552.6	24.3	

esults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2020-12-10-28 Date: 22/06/2021

oject Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

ency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

stomer's Reference : BBMP/EE/BTP/WO/131/2019-20

te of Receipt : 27-05-21

stomer ID : Cement Concrete Pavement (Varadharaj Nagar- 5th Cross Road)

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

te of test : 22/06/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Cement Concrete Pavement	M30	25/05/2021	22/06/2021	150.26 X 149.59 X 149.80	22477	8.775	745.5	33.2	33.0
	Cement Concrete Pavement	M30	25/05/2021	22/06/2021	151.89 X 149.68 X 149.09	22735	8.456	740.7	32.6	
	Cement Concrete Pavement	M30	25/05/2021	22/06/2021	149.72 X 150.53 X 151.24	22537	9.094	750.7	33.3	

e results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-2020-12-10-28** **Date: 01/06/2021**
ct Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
cy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
mer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
of Receipt	:	27-05-21
mer ID	:	Cement Concrete Pavement (Varadharaj Nagar- 5th Cross Road)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	01/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	150.94 X 149.49 X 151.39	22564	**8.914**	585.3	25.9	25.7
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	150.08 X 150.11 X 150.88	22528	**9.071**	595.3	26.4	
Cement Concrete Pavement	M30	25/05/2021	01/06/2021	151.95 X 151.10 X 150.43	22960	**8.776**	567.6	24.7	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangaluru Mahanagara Palike

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2020-12-10-28 **Date: 22/06/2021**
ject Name	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
tomer's Reference	:	BBMP/EE/BTP/WO/131/2019-20
e of Receipt	:	27-05-21
tomer ID	:	Cement Concrete Pavement (Varadharaj Nagar- 5th Cross Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	22/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	150.69 X 151.96 X 149.87	22900	8.775	758.7	33.1	33.1
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	151.49 X 149.16 X 149.92	22597	8.456	744.7	33.0	
Cement Concrete Pavement	M30	25/05/2021	22/06/2021	149.74 X 150.30 X 151.99	22506	9.094	748.6	33.3	

e results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig. ..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 02/06/2021**

: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

t Name : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

: BBMP/EE/BTP/WO/131/2019-20

mer's Reference : 28-05-21

f Receipt : Cement Concrete Pavement (Varadharaj Nagar- 7th Cross Road)

mer ID : 150X150X150 mm

le Type /Size : M30 / 7 Days Compressive Strength

le grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ence to BIS codes : 02/06/2021

of test

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	149.02 X 149.20 X 150.80	22234	**8.914**	560.1	25.2	25.3
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	151.57 X 149.13 X 151.76	22605	**9.071**	590.2	26.1	
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	150.12 X 149.43 X 150.75	22433	**8.776**	553.4	24.7	

results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/06/2021

: CP-2020-12-10-28

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 28-05-21

er ID : Cement Concrete Pavement (Varadharaj Nagar- 7th Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 23/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	149.37 X 151.70 X 150.27	22660	**8.775**	752.0	33.2	33.1
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	149.96 X 149.60 X 149.86	22433	**8.456**	729.2	32.5	
Cement Concrete Pavement	M30	26/05/2021	23/06/2021	150.67 X 150.36 X 150.62	22655	**9.094**	759.3	33.5	

ults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 02/06/2021**

Name : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

er's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 28-05-21

er ID : Cement Concrete Pavement (Varadharaj Nagar- 7th Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 02/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	150.34 X 149.71 X 149.17	22507	8.914	571.4	25.4	25.5
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	151.10 X 151.25 X 150.28	22855	9.071	612.5	26.8	
Cement Concrete Pavement	M30	26/05/2021	02/06/2021	151.33 X 150.33 X 149.13	22750	8.776	554.2	24.4	

lts obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangaluru Mahanagara Palike

CIVIL Pro Sig. ..... Date ..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 23/06/2021**

me : "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Reference : BBMP/EE/BTP/WO/131/2019-20

eipt : 28-05-21

D : Cement Concrete Pavement (Varadharaj Nagar- 7th Cross Road)

pe /Size : 150X150X150 mm

de/Age : M30 / 28 Days Compressive Strength

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 23/06/2021

entification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ent Concrete Pavement	M30	26/05/2021	23/06/2021	149.73 X 150.75 X 149.10	22572	8.775	762.6	33.8	33.1
ent Concrete Pavement	M30	26/05/2021	23/06/2021	149.37 X 151.06 X 150.27	22564	8.456	728.0	32.3	
ent Concrete Pavement	M30	26/05/2021	23/06/2021	149.27 X 149.89 X 151.00	22374	9.094	740.8	33.1	

obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahana[illegible]

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

Page 1/1

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 03/06/2021**

: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

Name : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 29-05-21

er ID : Cement Concrete Pavement (Varadharaj Nagar- 3rd Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 03/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	150.69 X 150.43 X 150.05	22668	**8.914**	574.1	25.3	25.5
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	151.43 X 150.96 X 150.62	22861	**9.071**	606.1	26.5	
Cement Concrete Pavement	M30	27/05/2021	03/06/2021	150.79 X 150.28 X 150.24	22661	**8.776**	559.5	24.7	

sults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-12-10-28** **Date: 24/06/2021**
	:	"Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."
Name	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
	:	BBMP/EE/BTP/WO/131/2019-20
er's Reference	:	29-05-21
Receipt	:	Cement Concrete Pavement (Varadharaj Nagar- 3rd Cross Road)
er ID	:	150X150X150 mm
Type /Size	:	M30 / 28 Days Compressive Strength
grade/Age	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ce to BIS codes		
Test	:	24/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	150.11 X 150.33 X 149.20	22567	**8.775**	757.9	33.6	33.3
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	151.99 X 149.01 X 150.01	22648	**8.456**	731.9	32.3	
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	151.27 X 150.81 X 151.74	22813	**9.094**	772.3	33.9	

ults obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 03/06/2021**

: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

eference : BBMP/EE/BTP/WO/131/2019-20

ipt : 29-05-21

: Cement Concrete Pavement (Varadharaj Nagar- 3rd Cross Road)

/Size : 150X150X150 mm

e/Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/06/2021

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
nt Concrete vement	M30	27/05/2021	03/06/2021	149.42 X 151.55 X 151.60	22645	8.914	576.5	25.5	25.7
nt Concrete vement	M30	27/05/2021	03/06/2021	149.12 X 151.34 X 150.20	22569	9.071	602.8	26.7	
nt Concrete vement	M30	27/05/2021	03/06/2021	150.36 X 150.35 X 149.55	22606	8.776	564.5	25.0	

tained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-10-28 **Date: 24/06/2021**

: "Improvements to Roads and Drains at Vinayakanagara and Surrounding Area in Ward No.11 Kuvempunagara."

ame : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

r's Reference : BBMP/EE/BTP/WO/131/2019-20

Receipt : 29-05-21

r ID : Cement Concrete Pavement (Varadharaj Nagar- 3rd Cross Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 24/06/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	151.37 X 150.94 X 150.96	22848	**8.775**	773.0	33.8	33.4
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	149.02 X 151.29 X 151.26	22546	**8.456**	731.3	32.4	
Cement Concrete Pavement	M30	27/05/2021	24/06/2021	149.41 X 150.10 X 151.66	22427	**9.094**	760.6	33.9	

lts obtained are satisfactory as per standard requirements.

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NAME OF WORK:- Improvements to Roads and Drains to Kuvempu Nagar 1st Stage Mariyamma temple and surrounding area in ward no.11 in Kuvempunagar

First and Final Bill

Quality Control Reports

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QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
8	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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9	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
10	PCC(M15)	Compressive Strength(7days and 28days)	3 set /16-30 cum	26.58	6	6
11	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	49.9	8	8
12	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	10 set /300-350 cum	346.45	20	20

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-01-04-08** **Date: 18-03-21**
Project Name	:	Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2019-20
Date of Receipt	:	15-03-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-03-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.7	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-01-04-08** **Date: 14-04-21**
Project Name	:	Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2019-20
Date of Receipt	:	15-03-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-03-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-01-04-08** **Date: 18-03-21**
Project Name	:	Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2019-20
Date of Receipt	:	15-03-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-03-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-01-04-08** **Date: 18-03-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.45	_
6	Water Absorption(%)	0.22	_

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-01-04-08** **Date: 17-03-21**
Project Name	:	Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/132/2019-20
Date of Receipt	:	15-03-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-03-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-01-04-08** **Date: 17-03-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-01-04-08** **Date: 17-03-21**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 15-03-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 15-03-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-01-04-08** **Date: 17-03-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-01-04-08** **Date: 19-03-21**
Project Name	:	Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2019-20
Date of Receipt	:	15-03-21
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	15-03-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	199	201	16120	32.425	2011.5	2020.4	Not less than 1800Kg/m^3
2	400	198	199	15761	31.799	2017.6		
3	405	199	200	16119	32.753	2031.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Lab ID : CP-2021-01-04-08 Date: 19-03-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	201	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	202	203	
3	399	200	199	
4	399	199	200	
5	401	199	199	
6	401	200	200	
7	402	202	203	
8	399	200	200	
9	404	202	203	
10	399	203	203	
11	402	202	200	
12	401	201	201	
13	403	202	202	
14	400	203	202	
15	403	200	200	
16	401	200	201	
17	403	201	202	
18	401	202	202	
19	402	203	202	
20	403	199	203	
Average of 20	**401**	**201**	**201**	

ASSISTANT EXECUTIVE ENGINEER
Yelahanka Sub-Division
Bruhat Bengaluru Mahanagara Palike

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BANGALORE

Lab ID : CP-2021-01-04-08 Date: 19-03-21

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80414	367.8	4.6	4.6
2	400	202	80819	372.5	4.6	
3	399	200	79919	360.6	4.5	
4	399	199	79541	382.9	4.8	
5	401	199	79876	379.3	4.7	
6	401	200	80400	362.1	4.5	
7	402	202	81237	390.6	4.8	
8	399	200	79970	359.6	4.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Malleswaram Sub-Division
Bruhat Bangalore Mahanagara Palike

CIVIL Pro Sig..... Date ..... BANGALORE

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R KARTHIK RECHAN
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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2021-01-04-08** **Date: 16-03-21**
Project Name	:	Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2019-20
Date of Receipt	:	15-03-21
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	15-03-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-01-04-08** **Date: 19-04-21**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 15-04-21

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 15/04/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-01-04-08** **Date: 19-04-21**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 15-04-21

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 15/04/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	569.9	18.1	16.8	21.0
2	Cover Slab-2	200.49	250.52	3.122	31564	575.3	18.2	17.0	21.2
3	Cover Slab-3	200.50	250.51	3.118	31567	581.5	18.4	17.1	21.4

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	CP-2021-01-04-08 **Date: 20-04-21**
Project Name	:	Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/132/2019-20
Date of Receipt	:	15-04-21
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	15/04/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date ..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 06/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 01-04-21

Customer ID : PCC (NAIDU LAYOUT - 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/03/2021	06/04/2021	150.02 X 149.29 X 151.69	22396	**8.406**	270.0	12.1	12.3
2	PCC	M15	30/03/2021	06/04/2021	150.46 X 151.66 X 150.81	22819	**8.462**	289.9	12.7	
3	PCC	M15	30/03/2021	06/04/2021	149.73 X 149.22 X 151.64	22342	**8.150**	270.2	12.1	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 27/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 01-04-21

Customer ID : PCC (NAIDU LAYOUT - 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/03/2021	27/04/2021	151.93 X 150.45 X 149.90	22858	**8.939**	406.4	17.8	17.3
2	PCC	M15	30/03/2021	27/04/2021	151.18 X 149.71 X 150.24	22633	**8.961**	387.8	17.1	
3	PCC	M15	30/03/2021	27/04/2021	151.85 X 149.98 X 149.16	22774	**8.344**	387.7	17.0	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date ..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 06/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 01-04-21

Customer ID : PCC (Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/03/2021	06/04/2021	150.98 X 150.82 X 149.36	22770	**8.406**	279.2	12.3	12.2
2	PCC	M15	30/03/2021	06/04/2021	149.28 X 151.58 X 150.69	22629	**8.462**	279.6	12.4	
3	PCC	M15	30/03/2021	06/04/2021	151.52 X 149.60 X 151.18	22668	**8.150**	274.1	12.1	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangalore Mahanagara Palike

CIVIL Pro Sig..... Date ..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 27/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 01-04-21

Customer ID : PCC (Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/03/2021	27/04/2021	149.42 X 149.00 X 151.08	22265	**8.939**	391.0	17.6	17.6
2	PCC	M15	30/03/2021	27/04/2021	151.42 X 149.89 X 149.84	22697	**8.961**	397.5	17.5	
3	PCC	M15	30/03/2021	27/04/2021	150.80 X 150.04 X 151.21	22625	**8.344**	399.1	17.6	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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CIVIL Pro Sig..... Date ..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 06/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 01-04-21

Customer ID : PCC (1st A Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/03/2021	06/04/2021	150.16 X 150.17 X 149.33	22549	**8.406**	290.7	12.9	12.9
2	PCC	M15	30/03/2021	06/04/2021	149.97 X 151.73 X 149.16	22754	**8.462**	295.1	13.0	
3	PCC	M15	30/03/2021	06/04/2021	149.00 X 151.91 X 149.58	22635	**8.150**	287.3	12.7	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 27/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 01-04-21

Customer ID : PCC (1st A Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/03/2021	27/04/2021	150.50 X 149.40 X 151.75	22484	**8.939**	398.6	17.7	17.5
2	PCC	M15	30/03/2021	27/04/2021	149.80 X 150.02 X 150.74	22472	**8.961**	399.5	17.8	
3	PCC	M15	30/03/2021	27/04/2021	151.54 X 149.70 X 149.11	22685	**8.344**	388.6	17.1	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 06/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 01-04-21

Customer ID : PCC (2nd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/03/2021	06/04/2021	151.42 X 151.41 X 150.14	22928	8.406	284.3	12.4	12.4
2	PCC	M15	30/03/2021	06/04/2021	150.10 X 151.14 X 149.68	22686	8.462	289.1	12.7	
3	PCC	M15	30/03/2021	06/04/2021	150.18 X 150.14 X 150.10	22548	8.150	271.1	12.0	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date ..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 27/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 01-04-21

Customer ID : PCC (2nd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/03/2021	27/04/2021	149.16 X 150.51 X 150.03	22449	8.939	400.0	17.8	17.8
2	PCC	M15	30/03/2021	27/04/2021	149.83 X 150.79 X 151.44	22594	8.961	399.9	17.7	
3	PCC	M15	30/03/2021	27/04/2021	151.63 X 149.67 X 149.08	22695	8.344	402.7	17.7	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 22/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 16-04-21

Customer ID : Drain Bottom Slab Concrete ,(Naidu Layout - Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/04/2021	21/04/2021	151.62 X 151.78 X 151.98	23012	**8.621**	415.0	18.0	18.5
2	Drain Bottom Slab Concrete	M20	14/04/2021	21/04/2021	149.26 X 150.80 X 150.48	22508	**8.223**	424.3	18.9	
3	Drain Bottom Slab Concrete	M20	14/04/2021	21/04/2021	150.84 X 151.97 X 149.07	22924	**8.292**	424.9	18.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 12/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 16-04-21

Customer ID : Drain Bottom Slab Concrete ,(Naidu Layout - Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/04/2021	12/05/2021	149.47 X 151.71 X 150.96	22676	**8.937**	524.9	23.1	23.0
2	Drain Bottom Slab Concrete	M20	14/04/2021	12/05/2021	149.27 X 150.16 X 150.87	22414	**8.402**	494.1	22.0	
3	Drain Bottom Slab Concrete	M20	14/04/2021	12/05/2021	150.88 X 150.38 X 151.94	22690	**8.420**	542.1	23.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 22/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 16-04-21

Customer ID : Drain Bottom Slab Concrete ,(Naidu Layout - Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/04/2021	21/04/2021	151.98 X 150.35 X 150.12	22851	**8.621**	433.4	19.0	18.6
2	Drain Bottom Slab Concrete	M20	14/04/2021	21/04/2021	149.90 X 151.23 X 150.40	22669	**8.223**	426.5	18.8	
3	Drain Bottom Slab Concrete	M20	14/04/2021	21/04/2021	151.86 X 149.43 X 151.78	22693	**8.292**	411.5	18.1	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date ..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 12/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 16-04-21

Customer ID : Drain Bottom Slab Concrete ,(Naidu Layout - Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	14/04/2021	12/05/2021	149.62 X 151.65 X 149.05	22689	**8.937**	542.7	23.9	23.4
2	Drain Bottom Slab Concrete	M20	14/04/2021	12/05/2021	151.43 X 150.41 X 150.98	22778	**8.402**	513.6	22.5	
3	Drain Bottom Slab Concrete	M20	14/04/2021	12/05/2021	151.76 X 150.12 X 149.64	22782	**8.420**	539.8	23.7	

*The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 24/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 19-04-21

Customer ID : Drain Side Wall Concrete ,(Naidu Layout - Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/04/2021	24/04/2021	149.25 X 151.94 X 149.34	22677	**8.621**	412.7	18.2	18.2
2	Drain Side Wall Concrete	M20	17/04/2021	24/04/2021	149.86 X 151.06 X 149.87	22638	**8.223**	409.4	18.1	
3	Drain Side Wall Concrete	M20	17/04/2021	24/04/2021	151.00 X 151.27 X 150.69	22840	**8.292**	420.2	18.4	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date ..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 15/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 19-04-21

Customer ID : Drain Side Wall Concrete ,(Naidu Layout - Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/04/2021	15/05/2021	151.43 X 149.97 X 150.93	22711	**8.937**	541.5	23.8	23.1
2	Drain Side Wall Concrete	M20	17/04/2021	15/05/2021	149.62 X 151.75 X 151.37	22705	**8.402**	500.9	22.1	
3	Drain Side Wall Concrete	M20	17/04/2021	15/05/2021	150.90 X 150.44 X 149.31	22702	**8.420**	529.9	23.3	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 24/04/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 19-04-21

Customer ID : Drain Side Wall Concrete ,(Naidu Layout - Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/04/2021	24/04/2021	150.91 X 151.16 X 149.68	22812	**8.621**	416.5	18.3	18.3
2	Drain Side Wall Concrete	M20	17/04/2021	24/04/2021	149.42 X 149.18 X 150.08	22291	**8.223**	402.8	18.1	
3	Drain Side Wall Concrete	M20	17/04/2021	24/04/2021	150.29 X 149.23 X 149.55	22427	**8.292**	419.5	18.7	

*The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 15/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 19-04-21

Customer ID : Drain Side Wall Concrete ,(Naidu Layout - Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/04/2021	15/05/2021	151.95 X 151.05 X 149.85	22952	**8.937**	546.7	23.8	23.3
2	Drain Side Wall Concrete	M20	17/04/2021	15/05/2021	149.43 X 149.09 X 151.74	22278	**8.402**	507.8	22.8	
3	Drain Side Wall Concrete	M20	17/04/2021	15/05/2021	149.89 X 149.15 X 151.29	22356	**8.420**	521.7	23.3	

*The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 08/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 03-05-21

Customer ID : Cement Concrete Pavement, (Naidu Layout- Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/05/2021	08/05/2021	149.46 X 150.71 X 149.38	22526	**8.300**	578.7	25.7	25.5
2	Cement Concrete Pavement	M30	01/05/2021	08/05/2021	151.90 X 151.46 X 149.96	23006	**8.740**	600.7	26.1	
3	Cement Concrete Pavement	M30	01/05/2021	08/05/2021	149.50 X 149.91 X 150.88	22411	**8.675**	553.2	24.7	

The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 29/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 03-05-21

Customer ID : Cement Concrete Pavement, (Naidu Layout- Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/05/2021	29/05/2021	150.55 X 151.87 X 149.51	22865	8.752	766.8	33.5	33.1
2	Cement Concrete Pavement	M30	01/05/2021	29/05/2021	150.32 X 150.05 X 149.61	22556	8.083	734.1	32.5	
3	Cement Concrete Pavement	M30	01/05/2021	29/05/2021	150.85 X 149.54 X 150.45	22558	8.794	747.5	33.1	

*The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 08/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 03-05-21

Customer ID : Cement Concrete Pavement, (Naidu Layout- Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/05/2021	08/05/2021	149.68 X 150.51 X 151.22	22529	**8.300**	566.7	25.2	25.2
2	Cement Concrete Pavement	M30	01/05/2021	08/05/2021	151.74 X 151.28 X 151.56	22954	**8.740**	603.5	26.3	
3	Cement Concrete Pavement	M30	01/05/2021	08/05/2021	151.06 X 149.10 X 151.69	22524	**8.675**	546.9	24.3	

The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 29/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 03-05-21

Customer ID : Cement Concrete Pavement, (Naidu Layout- Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/05/2021	29/05/2021	150.07 X 150.41 X 149.96	22572	**8.752**	753.0	33.4	33.3
2	Cement Concrete Pavement	M30	01/05/2021	29/05/2021	151.66 X 150.14 X 151.02	22771	**8.083**	749.3	32.9	
3	Cement Concrete Pavement	M30	01/05/2021	29/05/2021	149.64 X 151.21 X 149.71	22627	**8.794**	759.3	33.6	

*The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 08/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 03-05-21

Customer ID : Cement Concrete Pavement, (Kuvempu nagar 1st Stage - Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/05/2021	08/05/2021	149.13 X 150.55 X 151.89	22452	8.300	567.7	25.3	25.3
2	Cement Concrete Pavement	M30	01/05/2021	08/05/2021	151.45 X 151.29 X 150.43	22913	8.740	606.6	26.5	
3	Cement Concrete Pavement	M30	01/05/2021	08/05/2021	149.23 X 151.29 X 151.43	22577	8.675	547.7	24.3	

*The results obtained are satisfactory as per standard requirements.

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****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 29/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 03-05-21

Customer ID : Cement Concrete Pavement, (Kuvempu nagar 1st Stage - Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	01/05/2021	29/05/2021	151.70 X 151.80 X 151.96	23029	**8.752**	780.5	33.9	33.4
2	Cement Concrete Pavement	M30	01/05/2021	29/05/2021	151.09 X 151.87 X 150.26	22946	**8.083**	749.7	32.7	
3	Cement Concrete Pavement	M30	01/05/2021	29/05/2021	150.80 X 151.26 X 151.65	22810	**8.794**	767.7	33.7	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 19/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 14-05-21

Customer ID : Cement Concrete Pavement , (Near Ganesh Temple Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/05/2021	19/05/2021	150.80 X 151.40 X 150.88	22830	**8.300**	592.8	26.0	25.7
2	Cement Concrete Pavement	M30	12/05/2021	19/05/2021	149.53 X 149.82 X 149.68	22402	**8.740**	587.7	26.2	
3	Cement Concrete Pavement	M30	12/05/2021	19/05/2021	149.35 X 150.32 X 150.09	22451	**8.675**	561.2	25.0	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 09/06/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 14-05-21

Customer ID : Cement Concrete Pavement , (Near Ganesh Temple Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/05/2021	09/06/2021	151.34 X 151.53 X 151.14	22932	8.752	771.4	33.6	33.1
2	Cement Concrete Pavement	M30	12/05/2021	09/06/2021	150.36 X 150.83 X 149.42	22679	8.083	728.0	32.1	
3	Cement Concrete Pavement	M30	12/05/2021	09/06/2021	151.62 X 151.22 X 149.45	22927	8.794	767.1	33.5	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 19/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 14-05-21

Customer ID : Cement Concrete Pavement, (2nd Stage Kuvempu Nagar - 4th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/05/2021	19/05/2021	150.65 X 149.43 X 149.74	22512	**8.300**	578.6	25.7	25.5
2	Cement Concrete Pavement	M30	12/05/2021	19/05/2021	150.89 X 151.80 X 150.55	22904	**8.740**	612.3	26.7	
3	Cement Concrete Pavement	M30	12/05/2021	19/05/2021	149.74 X 150.52 X 151.36	22538	**8.675**	545.4	24.2	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 09/06/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 14-05-21

Customer ID : Cement Concrete Pavement, (2nd Stage Kuvempu Nagar - 4th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/05/2021	09/06/2021	150.89 X 151.86 X 151.77	22915	8.752	771.9	33.7	33.3
2	Cement Concrete Pavement	M30	12/05/2021	09/06/2021	149.07 X 149.46 X 151.46	22279	8.083	717.1	32.2	
3	Cement Concrete Pavement	M30	12/05/2021	09/06/2021	151.04 X 150.14 X 150.00	22677	8.794	768.9	33.9	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 19/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 14-05-21

Customer ID : Cement Concrete Pavement (2nd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/05/2021	19/05/2021	149.29 X 151.18 X 149.98	22569	**8.300**	580.9	25.7	25.8
2	Cement Concrete Pavement	M30	12/05/2021	19/05/2021	151.89 X 151.63 X 150.06	23031	**8.740**	614.5	26.7	
3	Cement Concrete Pavement	M30	12/05/2021	19/05/2021	151.05 X 149.25 X 150.20	22544	**8.675**	561.4	24.9	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 09/06/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 14-05-21

Customer ID : Cement Concrete Pavement (2nd Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/05/2021	09/06/2021	151.52 X 150.39 X 151.89	22787	8.752	770.5	33.8	33.0
2	Cement Concrete Pavement	M30	12/05/2021	09/06/2021	150.08 X 150.11 X 149.90	22529	8.083	721.6	32.0	
3	Cement Concrete Pavement	M30	12/05/2021	09/06/2021	150.79 X 151.13 X 149.90	22788	8.794	754.3	33.1	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig..... Date ..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 29/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 24-05-21

Customer ID : Cement Concrete Pavement (Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/05/2021	29/05/2021	149.19 X 150.28 X 151.91	22421	**8.300**	581.2	25.9	25.9
2	Cement Concrete Pavement	M30	22/05/2021	29/05/2021	149.52 X 149.78 X 149.74	22394	**8.740**	601.7	26.9	
3	Cement Concrete Pavement	M30	22/05/2021	29/05/2021	150.37 X 150.81 X 151.88	22677	**8.675**	563.8	24.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 19/06/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 24-05-21

Customer ID : Cement Concrete Pavement (Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/05/2021	19/06/2021	150.81 X 151.54 X 150.10	22854	**8.752**	769.7	33.7	33.4
2	Cement Concrete Pavement	M30	22/05/2021	19/06/2021	151.18 X 150.11 X 151.23	22693	**8.083**	744.8	32.8	
3	Cement Concrete Pavement	M30	22/05/2021	19/06/2021	150.29 X 149.04 X 150.12	22399	**8.794**	756.0	33.8	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 29/05/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 24-05-21

Customer ID : Cement Concrete Pavement (Govt School Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/05/2021	29/05/2021	151.39 X 151.89 X 150.65	22994	**8.300**	582.4	25.3	25.5
2	Cement Concrete Pavement	M30	22/05/2021	29/05/2021	151.25 X 151.68 X 151.95	22941	**8.740**	617.7	26.9	
3	Cement Concrete Pavement	M30	22/05/2021	29/05/2021	149.11 X 151.39 X 150.42	22573	**8.675**	546.6	24.2	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 19/06/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 24-05-21

Customer ID : Cement Concrete Pavement (Govt School Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	22/05/2021	19/06/2021	150.55 X 149.82 X 150.62	22555	8.752	750.3	33.3	32.9
2	Cement Concrete Pavement	M30	22/05/2021	19/06/2021	149.67 X 149.65 X 150.79	22399	8.083	720.2	32.2	
3	Cement Concrete Pavement	M30	22/05/2021	19/06/2021	151.56 X 151.29 X 151.92	22931	8.794	765.5	33.4	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date ..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 09/06/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement (Kuvempu Nagar - 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	150.00 X 150.20 X 149.78	22529	**8.300**	583.9	25.9	25.6
2	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	149.36 X 150.89 X 149.07	22537	**8.740**	588.3	26.1	
3	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	150.46 X 150.86 X 149.68	22697	**8.675**	563.1	24.8	

*The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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CIVIL Pro Sig Date BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-01-04-08** **Date: 30/06/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement (Kuvempu Nagar - 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	151.03 X 150.09 X 149.53	22668	8.752	749.5	33.1	32.8
2	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	151.22 X 149.22 X 151.07	22566	8.083	725.5	32.1	
3	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	151.05 X 150.22 X 150.49	22690	8.794	749.7	33.0	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Lab ID : **CP-2021-01-04-08** **Date: 09/06/2021**

Project Name : Improvements to Roads and Drains at Kuvempunagara 1st Stage Mariyamma Temple and Surrounding Area in Ward No.11 Kuvempunagara

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement (Kuvempu Nagar - 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	151.49 X 149.37 X 151.21	22627	**8.300**	586.4	25.9	25.8
2	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	149.95 X 151.20 X 150.96	22673	**8.740**	606.4	26.7	
3	Cement Concrete Pavement	M30	02/06/2021	09/06/2021	151.87 X 150.63 X 150.02	22876	**8.675**	563.0	24.6	

* The results obtained are satisfactory as per standard requirements.

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Brunath Bengaluru Mahanagara Palike

CIVIL Pro BANGALORE Sig..... Date .....

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Customer's Reference : BBMP/EE/BTP/WO/132/2019-20

Date of Receipt : 04-06-21

Customer ID : Cement Concrete Pavement (Kuvempu Nagar - 1st Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	150.32 X 149.91 X 150.73	22535	8.752	750.9	33.3	33.2
2	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	150.93 X 151.07 X 150.18	22801	8.083	744.0	32.6	
3	Cement Concrete Pavement	M30	02/06/2021	30/06/2021	150.61 X 150.40 X 151.01	22652	8.794	764.4	33.7	

* The results obtained are satisfactory as per standard requirements.

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Bruhath Bengaluru Mahanagara Palike

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